MONTANA CONSERVATION SEEDLING NURSERY

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Spring 2010 Seedling Availability and Seed Sources

August 17, 2009

- PLEASE NOTE PRICE STRUCTURE BASED ON QUANTITY ORDERED PER SPECIES.
- Order bareroot seedlings in multiples of 50 and containerized and evergreen seedlings in multiples of 25. 100 cubic inch containerized seedlings can be ordered in multiples of 8.
- In most cases, bareroot plant heights are:

1 year, 12-18"

2 year, 16-24"

Many of our species are produced from MITOSIS seed. MITOSIS is the Montana Interagency Tree and Shrub Improvement Study. The study was a cooperative effort to evaluate the performance various species of plants in established Montana plantings. The selected plantings were evaluated for over ten years and the best performing plants were selected for seed orchard establishment at the nursery.

We use this seed source whenever possible. These selections perform well in many of Eastern Montana's variable and harsh climates. Although these plants have not been tested in every environment, MITOSIS selections are some of the best plant materials available for use in Montana. The selections are proven to survive in Montana because they were evaluated in Montana not other Northern Great Plains states.

Bareroot Shrubs (Order in Lots of 50)								
Common Name	Seed Sources	Age	100 or less	150-1950	2000+	Estimated Inventory		
Buffaloberry, Silver Sheperdia argentea	North Dakota	2 yr	\$0.80	\$0.59	\$0.50	15850		
Caragana aborescens	Nursery Windbreaks	2 yr	\$0.66	\$0.46	\$0.39	69900		
Cherry, Nanking Prunus tomentosa	North Dakota	1 yr	\$0.72	\$0.52	\$0.45	950		
Cherry, Sand <i>Prunus besseyi</i>	North Dakota	2 yr	\$0.84	\$0.63	\$0.54	2200		
Chokecherry	Phillips County, 4200"	1 yr	\$0.69	\$0.48	\$0.42	9500		
Prunus virginiana	Clark Fork River, 3800'	1 yr	\$0.69	\$0.48	\$0.42	11000		
	MITOSIS	1 yr	\$0.69	\$0.48	\$0.42	4450		
	North Dakota	2 yr	\$0.80	\$0.60	\$0.52	7300		
Chokecherry, Canada Red Prunus virginiana Schubert	Shubert Variety	1 yr	\$0.74	\$0.53	\$0.46	1000		
Cotoneaster, Centennial Cotoneaster interrima	MITOSIS	1 yr	\$0.86	\$0.65	\$0.56	1775		
Current, Golden Ribes odoratum	Unknown	1 yr	\$0.74	\$0.54	\$0.48	1075		
Dogwood, Red-Osier	North Dakota	1 yr	\$0.80	\$0.59	\$0.52	3250		
Cornus sericea	Clark Fork River, 4300"	1 yr	\$0.80	\$0.59	\$0.52	3050		
	North Dakota	2 yr	\$0.90	\$0.69	\$0.60	500		
Honeysuckle, Blue-leaf	MITOSIS	1 yr	\$0.72	\$0.52	\$0.45	3300		
Lonicera korolkowii		2 yr	\$0.86	\$0.65	\$0.56	3500		
Lilac, Common	North Dakota 6-10" Tall	2 yr	\$0.74	\$0.53	\$0.46	1000		
Syringa villosa	North Dakota, > 10" Tall	2 yr	\$0.80	\$0.59	\$0.50	26000		
Lilac, Late Syringa villosa	North Dakota	2 yr	\$0.84	\$0.63	\$0.54	700		
Plum, American <i>Prunus americana</i>	MITOSIS	1 yr	\$0.72	\$0.52	\$0.45	7950		
Rose, Woods	Clark Fork River, 4300'	1 yr	\$0.78	\$0.58	\$0.50	1100		
Rosa woodsii	North Dakota	1 yr	\$0.78	\$0.58	\$0.50	3000		
	North Dakota	2 yr	\$0.90	\$0.70	\$0.60	3000		

Bareroot Shrubs Continued (Order in Lots of 50)									
Common Name	Seed Sources	Age	100 or less	150-1950	2000+	Estimated Inventory			
Sagebrush, Wyoming Big <i>Artemisia cana</i>	Wyoming	1 yr	\$0.76	\$0.55	\$0.47	500			
Serviceberry	Missoula County, 3500'	1 yr	\$0.78	\$0.58	\$0.50	6900			
Amelanchier alnifolia	Sanders County, MT	1 yr	\$0.78	\$0.58	\$0.50	6900			
Silverberry Elaeangus commutata	Unknown	2 yr	\$0.86	\$0.66	\$0.58	2000			
Snowberry, Common Symphoricarpos alba	Sula State Forest, 4800'	1 yr	\$0.80	\$0.60	\$0.50	450			
Snowberry, Western	"Trapper" Selection	1 yr	\$0.80	\$0.60	\$0.50	2000			
Symphoricarpos occidentalis	Bridger PMC	2 yr	\$0.90	\$0.69	\$0.60	2800			
Sumac, Skunk Rhus trilobata	"Bighorn" Release	2 yr	\$0.80	\$0.60	\$0.51	4900			
Willow, Booth Salix boothii	Warm Springs, MT, 6000"	1 yr	\$0.86	\$0.66	\$0.58	1200			
Willow, Drummond Salix drummondiana	Warm Springs, MT, 6000'	1 yr	\$0.84	\$0.64	\$0.56	350			
	Bitterroot River, MT 3,200'	1 yr	\$0.82	\$0.62	\$0.54	1200			
Willow, Sandbar Salix exigua	Clark Fork, MT 2,600'	1 yr	\$0.82	\$0.62	\$0.54	550			
Salix exigua	Clark Fork, MT 4,400'	1 yr	\$0.82	\$0.62	\$0.54	700			
	Mill Creek, MT 4,900'	1 yr	\$0.82	\$0.62	\$0.54	750			
	Teton River, Mt	1 yr	\$0.82	\$0.62	\$0.54	950			
	Three Forks, MT	1 yr	\$0.82	\$0.62	\$0.54	1150			
	Warm Springs, MT, 6000'	1 yr	\$0.82	\$0.62	\$0.54	600			
	Yellowstone County, MT 4,000' Dry Site	1 yr	\$0.82	\$0.62	\$0.54	900			
	Yellowstone River, MT 3,000' Wet Site	1 yr	\$0.82	\$0.62	\$0.54	2800			
Willow, Yellow Salix lutea	Swan & Mission	1 yr	\$0.86	\$0.66	\$0.56	500			

Bareroot Deciduous Trees (Order in Lots of 50)										
Common Name	Seed Source	Age	100 or less	150-1950	2000+	Estimated Inventory				
Ash, Green	MITOSIS	2 yr	\$0.72	\$0.52	\$0.45	5850				
Fraxinus pennsylvanica	1110013	3 yr	\$0.86	\$0.65	\$0.56	2000				
Cherry, Black	MITOSIS	2 yr	\$0.82	\$0.62	\$0.52	1500				
Prunus serotina Cottonwood, Black	Bitterroot, MT 3,200'	1 yr	\$0.82	\$0.62	\$0.54	1300				
Populus, trichocarpa	Clark Fork, MT 2,600'	1 yr	\$0.82	\$0.62	\$0.54	800				
Populus, trichocarpa	Mill Creek, MT 4,900'	1 yr	\$0.82	\$0.62	\$0.54	750				
	Three Forks. MT	1 yr	\$0.82	\$0.62	\$0.54	650				
Cottonwood, Daniels	Cottonless, Daniels Cty. MT		\$0.80	\$0.60	\$0.50	3800				
Populus deltoides	Livingston, MT	1 yr	\$0.84	\$0.63	\$0.54	250				
Cottonwood, Narrowleaf Populus angustifolia	Shields River, MT	1 yr	\$0.84	\$0.63	\$0.54	200				

Ва	Bareroot Deciduous Trees Continued (Order in Lots of 50)									
Common Name	Seed Source	Age	100 or less	150-1950	2000+	Estimated Inventory				
Cottonwood, Plains Populus deltoides	MITOSIS	1 yr	\$0.80	\$0.60	\$0.50	2450				
Crabapple, Midwest <i>Malus baccata var.mandshurica</i>	"Midwest Release"	2 yr	\$0.82	\$0.62	\$0.52	700				
Elm, Siberian <i>Ulmus pumila</i>	Unknown	1 yr	\$0.68	\$0.48	\$0.40	1000				
Hackberry	"Oahe" Release	2 yr	\$0.72	\$0.52	\$0.45	1000				
Celtis occidentalis	Northern Source	2 yr	\$0.72	\$0.52	\$0.45	400				
Hawthorn, Arnold <i>Crataegus arnoldiana</i>	MITOSIS	1 yr	\$0.82	\$0.62	\$0.52	500				
Hawthorn, Black	Blackfoot River, 4500'	1 yr	\$0.88	\$0.68	\$0.58	1200				
Crataegus douglasii	Lower Clark Fork, MT	1 yr	\$0.88	\$0.68	\$0.58	450				
Maple, Amur	MITOSIS	1 yr	\$0.80	\$0.60	\$0.50	1200				
Acer ginnala		2 yr	\$0.90	\$0.70	\$0.60	3300				
Poplar, Prairie Sky <i>Populus x</i>	"Prairie Sky" Release	1 yr	\$0.82	\$0.62	\$0.52	3150				
Willow, Golden Salix, alba	MCSN Nursery	1 yr	\$0.80	\$0.60	\$0.50	2550				

Bareroot Conifers (Order in Lots of 25)									
Common Name	Seed Source	Age	100 or less	125-1975	2000+	Estimated Inventory			
Pine, Ponderosa, East	Hunter Select	2 yr	\$0.64	\$0.46	\$0.38	300			
Pinus ponderosa	Custer County, MT	2 yr	\$0.64	\$0.46	\$0.38	200			
	Hunter Select	3 yr	\$0.74	\$0.56	\$0.48	1000			
Pine, Ponderosa, West	Ravalli County 5,100'	2 yr	\$0.64	\$0.46	\$0.38	900			
Pinus ponderosa	Missoula County 3,400'	3 yr	\$0.74	\$0.56	\$0.48	1300			
Spruce, Blue Picea pungens	San Isabel N.F.	3 yr	\$0.74	\$0.56	\$0.48	2000			

CONTAINER GROWN SEEDLINGS

5 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old								
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory		
Fescue, Rough Festuca campestris	Wyoming	2-4"	\$0.60	\$0.40	\$0.37	500		
Larch, Western <i>Larix occidentalis</i>	Placid Lake, 4,200'	6-10"	\$0.80	\$0.50	\$0.43	1800		
Pine, Ponderosa, West Pinus ponderosa	Ravalli County. 4,100'	4-8"	\$0.80	\$0.50	\$0.43	1450		
Sage, Silver <i>Artemisia cana</i>	Wyoming	4-6	\$0.80	\$0.50	\$0.43	2400		
Wheatgrass, Bluebunch Pseudoroegneria spicata	USDA "Secar" Release	3-6"	\$0.60	\$0.40	\$0.37	525		
Wildrye, Basin <i>Leymus occidentalis</i>	USDA "Trailhead" Release	3-6"	\$0.60	\$0.40	\$0.37	SOLD OUT		

7 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old								
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory		
Douglas Fir, East Pseudotsuga menziesii	Helena NF, 6,000'	3-7	\$0.95	\$0.63	\$0.54	4750		
Douglas Fir, West	Bitterroot NF, 5,000'	4-8	\$0.95	\$0.63	\$0.54	2975		
Pseudotsuga menziesii	Kootenai, 4,000'	4-12	\$0.95	\$0.63	\$0.54	1675		
Larch, Western Larix occidentalis	Seeley Lake, 4,000'	6-12	\$0.95	\$0.61	\$0.52	4000		
Pine, Austrian Pinus nigra	Republic of Georgia	4-9	\$0.95	\$0.61	\$0.52	950		
Pine, Lodgepole Pinus contorta	Deer Lodge, Silverbow Counties	6-14	\$0.95	\$0.61	\$0.52	5750		
Pine, Ponderosa, East Pinus ponderosa	Custer County	4-8	\$0.95	\$0.61	\$0.52	1500		
Pine, Ponderosa, West	Missoula County, 3,200'	6-12	\$0.95	\$0.61	\$0.52	3550		
Pinus ponderosa	Ravalli County, 4,200'	6-12	\$0.95	\$0.61	\$0.52	5200		
<i>,</i>	Ravalli County, 5,500'	6-12	\$0.95	\$0.61	\$0.52	2000		
Pine, Scotch Pinus sylvestris	Europe	4-10	\$0.95	\$0.61	\$0.52	750		
Pine, White Pinus monticola	Blister Rust Resistant	3-8	\$1.00	\$0.71	\$0.61	2000		
Spruce, Blue Picea pungens	San Isabel N.F.	4-8	\$0.95	\$0.61	\$0.52	3650		
Spruce, Engelmann Picea engelmannii	Lolo N.F.	4-12	\$0.95	\$0.61	\$0.52	1250		

10 Cubic	10 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old									
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory				
Alder, Thinleaf	Blackfoot , 4,200'	6-10	\$1.40	\$1.05	\$0.90	800				
Alnus incana Aspen Populus tremuloides	Ravalli County, 3,700'	8-12	\$1.40	\$1.05	\$0.90	2500				
Cottonwood, Black Populus trichocarpa	Ravalli County, 4,300'	6-12	\$1.40	\$1.05	\$0.90	450				
Dogwood, Red-Osier Cornus sericea	Lower Clark Fork River	6-12	\$1.40	\$1.05	\$0.90	500				
Juniper, Rocky Mountain Juniperus scopulorum	Carbon County, MT	5-10	\$1.40	\$1.05	\$0.90	1775				
Larch, Western Larix occidentalis	Seeley Lake, 4,000'	8-12	\$1.40	\$1.05	\$0.90	4100				
Pine, Lodgepole Pinus contorta	Deer Lodge, Silverbow Counties	6-10	\$1.40	\$1.05	\$0.90	650				
Pine, Ponderosa East Pinus ponderosa	Custer County	4-8	\$1.40	\$1.05	\$0.90	500				
Pine, Ponderosa West Pinus ponderosa	Ravalli County, 4,100'	5-10	\$1.40	\$1.05	\$0.90	2850				
Rose, Woods Rosa woodsii	Anaconda, MT	5-10	\$1.40	\$1.05	\$0.90	200				
Sagebrush, Wyoming, Big Artemisia tridentata	Wyoming	6-12	\$1.40	\$1.05	\$0.90	700				
Sagebrush, Silver Artemisia cana	Wyoming	5-8	\$1.40	\$1.05	\$0.90	700				

10 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old							
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory	
Serviceberry Amelanchier alnifolia	Sanders County, MT	5-10	\$1.40	\$1.05	\$0.90	350	
Willow, Sandbar Salix exigua	Three Forks, MT	6-12	\$1.40	\$1.05	\$0.90	500	

30 Cubic Inch Containerized Seedlings (Order in lots of 25), 1-2 years old								
Common Name	Seed Source	Height	100 or less	125- 1975	2000+	Estimated Inventory		
Aspen Populus tremuloides	Ravalli County, 3,700'	10-16	\$1.90	\$1.50	\$1.26	1700		
Chokecherry <i>Prunus virginiana</i>	Clark Fork River, 3,800'	8-16	\$2.00	\$1.60	\$1.35	500		
Currant, Golden Ribes odoratum	Unknown	8-16	\$2.00	\$1.60	\$1.35	150		
Juniper, Rocky Mountain Juniperus scopulorum	Bridger Select	12-28	\$2.25	\$1.90	\$1.58	325		
Larch, Western Larix occidentalis	Seeley Lake, 4,000'	8-14	\$1.90	\$1.60	\$1.35	2475		
Oak, Bur <i>Quercus macrocarpa</i>	Bridger Plant Materials Center	10-20	\$2.00	\$1.60	\$1.35	225		
Pine, Austrian <i>Pinus nigra</i>	Republic of Georgia	8-14	\$2.00	\$1.60	\$1.35	900		
Pine, Lodgepole Pinus contorta	Deer Lodge, Silverbow Counties	8-18	\$2.00	\$1.60	\$1.35	475		
Pine, Ponderosa, East	Custer County, MT	7-14	\$2.00	\$1.60	\$1.35	2600		
Pinus ponderosa	Treasure County, MT	7-14	\$2.00	\$1.60	\$1.35	6800		
Pine, Ponderosa, West	Missoula County, 3,200'	7-14	\$2.00	\$1.60	\$1.35	3775		
Pinus ponderosa	Flint Creek, MT 5800'	7-14	\$2.00	\$1.60	\$1.35	375		
	Ravalli County, 5,500'	7-15	\$2.00	\$1.60	\$1.35	3500		
Pine, Scotch Pinus sylvestris	Europe	8-14	\$2.00	\$1.60	\$1.35	500		
Spruce, Black Hills Picea glauca densata	South Dakota	5-8	\$2.00	\$1.60	\$1.35	250		
Spruce, Blue Picea pungens	San Isabel, N.F., 8,500'	7-14	\$2.00	\$1.60	\$1.35	1800		
Spruce, Engelmann Picea engelmannii	Lolo, N.F.	6-14	\$2.00	\$1.60	\$1.35	750		

100 Cubic Inch Containerized Seedlings (Order in lots of 8), All 2-3 years old								
Common Name	Species	Seed Source	Height	40 or less	> 40	Estimated		
		·				Inventory		
Alder, Thinleaf	Alnus incana	Missoula County, 4300'	16-24	\$6.00	\$5.00	32		
Ash, Green	Fraxinus pennsylvanica	MITOSIS	22-30	\$6.00	\$5.00	304		
Aspen	Populus tremuloides	Ravalli County, 3700'	16-26	\$6.00	\$5.00	400		
Birch, River	Betula occidentalis	Rock Creek, MT, 4400'	20-28	\$6.00	\$5.00	64		
Buffaloberry	Sheperdia argentea	North Dakota	16-26	\$6.00	\$5.00	80		
Caragana	Caragana arborescens	Nursery	16-26	\$6.00	\$5.00	152		
Cherry, Black	Prunus serotina	MITOSIS	16-26	\$6.00	\$5.00	40		
Chokecherry	Prunus virginiana	MITOSIS	16-26	\$6.00	\$5.00	72		
Cottonwood, Daniels	Populus deltoides	MITOSIS	20-30	\$6.00	\$5.00	88		

100 Cubic I	nch Containerized S	Seedlings (Order in	lots of	8), All 2-	·3 years	old
Common Name	Species	Seed Source	Height	40 or less	> 40	Estimated
	·					Inventory
Crabapple, Midwest	Malus baccata	"Midwest" Release	18-28	\$6.00	\$5.00	40
Current, Golden	Ribes odoratum	Unknown	18-28	\$6.00	\$5.00	48
Dogwood, Red-Osier	Cornus sericea	Lower Clark Fork, MT	18-30	\$6.00	\$5.00	56
,		North Dakota	18-30	\$6.00	\$5.00	40
Douglas Fir, East	Pseudotsuga menziesii	Lewis & Clark NF,6000'	12-18	\$6.00	\$5.00	56
Douglas Fir, West	Pseudotsuga menziesii	Bitterroot NF, 5000'	12-18	\$6.00	\$5.00	64
		Kootenai NF, 4000'	12-18	\$6.00	\$5.00	16
Hackberry	Celtis occidentalis	South Dakota	14-20	\$6.00	\$5.00	32
Hawthorn, Arnold	Crataegus arnoldiana	MITOSIS	18-28	\$6.00	\$5.00	56
Juniper, Rocky Mountain	Juniperus scopulorum	Bridger Select Release	12-24	\$6.00	\$5.00	344
Larch, Western	Larix occidentalis	Seeley Lake, MT 4000'	18-28	\$6.00	\$5.00	8
Lilac, Common	Syringa vulgaris	North Dakota	10-18	\$6.00	\$5.00	200
Maple, Amur	Acer ginnala	MITOSIS	16-26	\$6.00	\$5.00	32
Oak, Bur	Quercus macrocarpa	Bridger PMC	12-16	\$6.00	\$5.00	136
Pine, Lodgepole	Pinus contorta	Silver Bow County	10-14	\$6.00	\$5.00	SOLD OUT
Pine, Ponderosa East	Pinus ponderosa	Big Horn County, MT	12-22	\$6.00	\$5.00	208
· · · · · · · · · · · · · · · · · · ·	·	Hunter Select Release	12-22	\$6.00	\$5.00	56
		North Dakota	12-22	\$6.00	\$5.00	120
·		Treasure County, MT	12-22	\$6.00	\$5.00	480
Pine, Ponderosa West	Pinus ponderosa	Missoula County, 3300'	12-24	\$6.00	\$5.00	16
		Sander County, 3800'	12-24	\$6.00	\$5.00	448
Pine, Scotch	Pinus sylvestris	Europe	16-26	\$6.00	\$5.00	120
Pine, Western White	Pinus monticola	Blister Rust Resistant	8-12	\$6.00	\$5.00	40
Sagebrush, Silver	Artemisia cana	Wyoming	12-18	\$6.00	\$5.00	40
Spruce, Black Hills	Picea glauca densata	South Dakota	9-16	\$6.00	\$5.00	104
Spruce, Blue	Picea pungens	San Isabel, N.F.	10-22	\$6.00	\$5.00	904
Spruce, Engelmann	Picea Engelmannii	Lolo NF	11-22	\$6.00	\$5.00	40
Willow, Drummond	Salix drummondiana	Warm Springs, 6000'	18-28	\$6.00	\$5.00	40
Willow, Sandbar	Salix exigua	Mill Creek, 4900'	18-28	\$6.00	\$5.00	40

OTHER ITEMS		
Item	Description	Price
Wildlife Packet	Wildlife packets contain 250 seedlings, 50 seedlings each of three shrub species, one deciduous tree species, and one evergreen species. The species included are chosen for their benefits in bird habitat plantings but most species also provide benefits to mammals large and small. The nursery will select the species best suited for your area. You are not allowed to select the species. Potential shrub species include Caragana, chokecherry, golden currant, Nanking cherry, sand cherry, silver buffaloberry, skunk sumac, and woods rose. Potential tree species include Arnold Hawthorn, green ash, hackberry, and Midwest crabapple. Potential evergreens are blue spruce, lodgepole pine, ponderosa pine, and Scotch pine. To order write Wildlife Packet under common name.	\$150.00
Plantskydd Deer Repellant, 2.2 Lbs. Powder	11 11 1000/ Landbarrain and	\$40.00
Plantskydd Deer Repellant, 5.0 Liter Liquid	We offer Plantskydd animal repellent. Although no repellent is 100% guaranteed to work our foresters and customers have found Plantskydd to be very effective for up to six months. The liquid requires no mixing. The 5.0 liter bottle will treat 300 to 500 conifer seedlings or 150 to 300 deciduous seedlings.	
Rigid Seedling Protector Tubes	Rigid $18'' \times 4''$ net tube physically prevents big game browse. Photodegradable material breaks down in four to six years. Comes with 3-foot bamboo stake for installation. Order in Multiples of 100.	\$50.00 per 100
3x3 Foot Weed Control Fabric Squares	3.0 oz polypropylene woven ground cover. Use around individual seedlings for complete, non-chemical weed control and soil moisture retention. The fabric is U.V. stabilized and permeable to water and air. Use of weed fabric can increase survival and growth rates in your planting. Order in Multiples of 100.	\$75.00 per 100